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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/522,766	02/27/2006	Daphne Atlas	29287	9326
Martin Moyniha	7590 03/26/200 an	EXAMINER		
Anthony Castorina 2001 Jefferson Davis Highway Suite 207 Arlington, VA 22202			FINN, MEGHAN R	
			ART UNIT	PAPER NUMBER
			1614	
			MAIL DATE	DELIVERY MODE
			03/26/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/522,766	ATLAS ET AL.		
Office Action Summary	Examiner	Art Unit		
	MEGHAN FINN	1614		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on <u>16 Ja</u> This action is FINAL . 2b)⊠ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) Claim(s) 1-19 is/are pending in the application. 4a) Of the above claim(s) 4-6 and 10-19 is/are versions. 5) Claim(s) is/are allowed. 6) Claim(s) 1-3 and 7-9 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on 01 February 2005 is/are	withdrawn from consideration. relection requirement. r.	d to by the Examiner.		
Applicant may not request that any objection to the orection Replacement drawing sheet(s) including the correction The oath or declaration is objected to by the Experience of the control	drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 11/02/2005.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte		

DETAILED ACTION

Applicant's election of group II (claims 1-12), and the species election of compound J, in the reply filed on January 16, 2008 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Applicant indicated in the reply on January 16, 2008 that claims 1-12 read on the elected species. However, claims 4-6 and 10-12 claim the compound is a ester, and the elected species (N-acetyl cysteine amide, compound J) does not contain an ester and thus claims 4-6 and 10-12 do not read on the elected species and are withdrawn.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated

by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

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A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-3 and 7-9 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 53 and 57 of copending Application No. 10/114,475.

Claims 1-3 and 7-9 claim a method of treating Multiple Sclerosis by administering N-acetyl cysteine amide (compound J). Claims 53 and 57 both claim a method of reducing oxidative stress comprising administering N-acetyl cysteine amide. Since oxidative stress is a known factor in Multiple Sclerosis (MS), and the method of

10/144,475 would also treat MS, the instant claims 1-3 and 7-9 conflict with those claims 53 and 57 of application 10/144,475.

This is a <u>provisional</u> obviousness-type double patenting rejection.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-3 and 7-9 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Applicant claims a method of treating Multiple Sclerosis (MS) with antioxidant compounds, however claims 1 and 7 do not specify specific compounds, and the specification never explains how qualities a) thru c) would result in the ability to treat MS or how the compounds listed in claims 2-3, and 8-9 have the properties claimed in claims 1 and 7. There is a special lack of direction or mention of how the compounds accumulate within the cytoplasm of cells. Thus applicant has not shown how one of skill in the art could use the invention of claims 1 or 7 to treat, or in the case of claim 7 to also prevent, Multiple Sclerosis.

Additionally, in claim 7, applicant claims a method of prophylactically treating a subject against Multiple Sclerosis (MS) with an antioxidant compound. Applicant has not shown anywhere in the specification how their invention would prevent MS, which is a complicated neurological disease. The claims read on preventing every single person from developing MS with the use of the compounds claimed and applicant has shown no direction or guidance which would allow one of skill in the art to use the invention to prevent Multiple Sclerosis.

Factors to be considered in determining whether a disclosure would require undue experimentation have been summarized in *Ex parte Forman*, 230 USPQ 546 (BPAI 1986) and reiterated by the Court of Appeals in *In re Wands*, 8 USPQ2d 1400 at 1404 (CAFC 1988). The factors to be considered in determining whether undue experimentation is required include: (1) the quantity of experimentation necessary, (2) the amount of direction presented, (3) the presence or absence of working examples, (4) the nature of the invention, (5) the state of the prior art, (6) the relative skill of those in the art, (7) the predictability or unpredictability of the art, and (8) the breadth of the claims.

There is a great deal of experimentation necessary to determine which compounds would satisfy claims 1 and 7 (1) and there is a complete lack of direction provided (2), the working examples do not discuss the factors, other than that compounds A-L cross the blood brain barrier, and the examples do not address prevention of MS at all (3) and the nature of the invention is treatment and prevention of a complicated disease (multiple sclerosis) with compounds that are not well defined

(4) and state of the art is such that treatment of MS is already a complicated and unpredictable art and one in which prevention is unknown (5,7). The relative skill of those in the art is high (6), however the breadth of the claims is large due to no specific chemical structures being claimed (8).

Thus claims 1 and 2-3, which depend from claim 1, as well as claims 7 and 8-9, which depend from claim 7, lack an enabling disclosure such that one of skill in the art could use their invention as claimed.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to

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consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-3 and 7-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Atlas et al. (WO 98/29375, cited on applicant's IDS) in view of Passi et al. (US 6,303,139).

Claims 1-3 and 7-9 all claim a method of treating multiple sclerosis with the elected species, compound J (N-acetyl cysteine amide). Atlas et al. teaches N-acetyl cysteine amide for use in treating oxidative stress (page 7, lines 25-35). While Atlas et al. mentions several diseases in which oxidative stress is a factor such as Parkinson's and Alzheimer's (abstract), they do not mention Multiple Sclerosis. Passi et al. however, teach antioxidant compounds, and they teach specifically that oxidative stress is significantly involved in diseases such as multiple sclerosis (column 1, lines 55-60). Thus it would have been obvious to one of ordinary skill in the art at the time of the invention that the compound J of Atlas et al. could be used to treat multiple sclerosis and thus claims 1-3 and 7-9 are unpatentable over Atlas et al. in view of Passi et al.

Conclusion

No claims are allowed.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Meghan Finn whose telephone number is (571) 270-3281. The examiner can normally be reached on 7:30am-5pm Mon-Thu, 7:30am-4pm Friday (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ardin Marschel can be reached on 571-272-0718. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Meghan Finn

/Ardin Marschel/ Supervisory Patent Examiner, Art Unit 1614